New Mexico Energy \$mart Monitoring

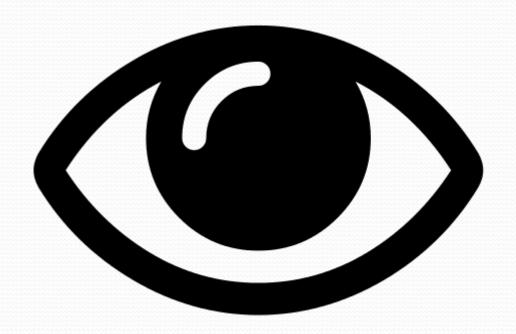
A method to ensure quality

Troy Cucchiara
New Mexico Mortgage Finance Authority
505 767-2256

Overview

- Desk Monitoring
 - Basic strategies and reasons
- QCI Inspections
 - You can run but you can't hide
- Annual Monitoring
 - Programmatic
 - Technical

Desk Monitoring



Desk Monitoring

- Entry of specifics by agencies
- Tells us a great deal about a unit, agency, or month
- Can be used to crunch numbers

Desk Monitoring

- 100% of all units
- Required to pay invoices
- Anomalies are questioned, explanations provided
- Unusual situations are worked through
- Training may be identified
- Dialogue is facilitated
- Units are flagged for possible inspection
- Cost and savings are watched closely

| Client Name | Cou | | | ıse ze | Fuel Type | | House Type | | | Ins | nsp. SIR | | Dollars Saved | |
|--------------------|------------|------|----|-----------|--------------|--------|---------------|---|------------------|-----|----------|----------------|------------------|--|
| John | Ed | ldy | 17 | 16 | Prop | . 1968 | SB | E | Brian | Bri | ian | 1.8 | \$1,158 | |
| Measure | e | Cos | t | E | st. | SIR | MMBTU | U | Pre | 2 | P | ost | Notes | |
| Air Sealing | | 968 | , | 10 | 000 | 1.1 | 4.1 | | 3125 | | 1 | 710 | 1900 | |
| Replace Door | | 466 |) | 4 | ļ70 | 1.6 | 1.5 | | 30x80 SC | | | | | |
| Pipe Wrap | | 32 | | 32 | | 9.7 | 1 | | | | | R ₃ | | |
| Tank Insulation | n | 86 | | 52 | | 6.6 | 6 2 F | | R ₂ / | 1 | | | | |
| Replace Door | | 561 | | 570 | | 1.5 | 1.6 | | 36x8o metal | | | | | |
| Low E Window | , <u> </u> | 1996 | | 6 1990 | | 1.2 | 4.1 | | Meta Sing | | | ouble Vin | 4 | |
| CO Alarm | | 57 | | | 52 | H&S | | | | | | | ı installed | |

Desk Monitoring Results:



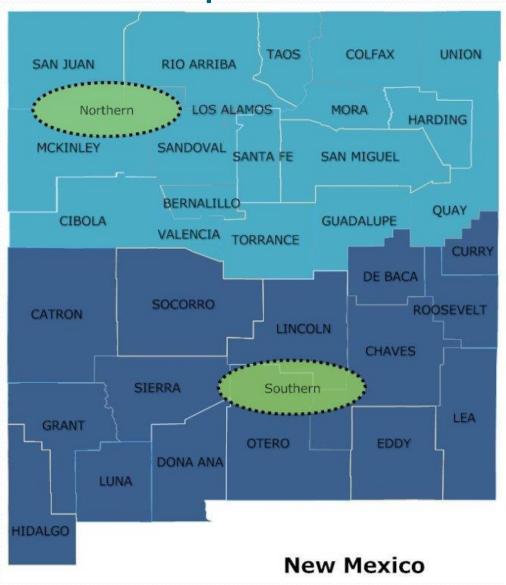
QCI Unit Inspections

- How these are selected
- Timing
- Purpose
- Method
- Knowing the file, unit, what to look for
- Remedies
- Follow up

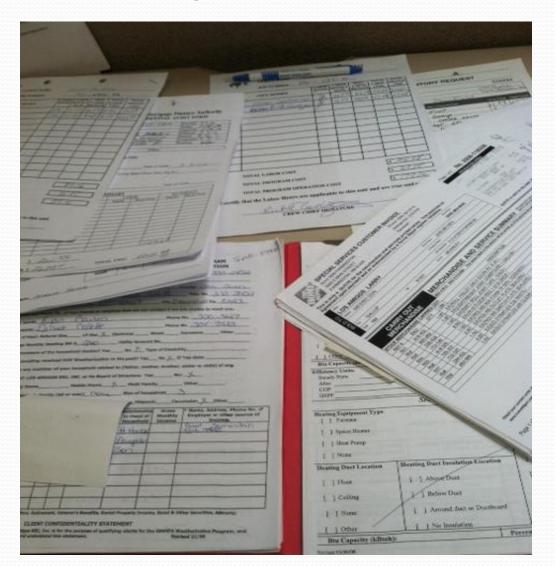
QCI Unit Inspections-Selection

- Determined by flagged units during desk monitoring
- Housing type
- Timing and travel
 - The sooner after completion the better

QCI Unit Inspections-Selection



QCI Unit Inspections-Method



QCI Unit Inspections-Method

- 1. File inspection, memorize scope of work (the main characters)
- 2. Select potential problem areas-may already be done
- 3. Client interview
- 4. Walk the outside, check for all compliance, gas testing
- 5. Check for workmanship and SWS compliance inside measures
- 6. Ask occupant about client education where applicable
- 7. Complete all inside diagnostic testing and compare to final
- 8. Check against file notes, SWS, Tech Standards, Codes
- 9. Give chance to fix problems if any
- 10. Clean up and pick up, final words

When there are problems



QCI Unit Inspections-Aftermath

- Letter to the agencies
- Follow up
- Training

Programmatic Monitoring

- Fiscal Piece
- Policies and Procedures
- Inventory
- Personnel
- External Audit
- Procurement-Overlap to technical

Technical Monitoring

- Office Interview
- Assessment monitoring
- Work in progress monitoring
- Final Inspection monitoring
- Tied to Programmatic
- Is everything congruent?
- Close out interview
- Letters to agencies

Office Interview-

All items on monitoring tool discussed

- Procedures discussed
- Energy Audit libraries last update
- Methods of SWS compliance
- How is training identified
- Safety Manuel examined
 - New modifications (Confined Space, etc.)
 - SDS sheets in vehicles

Assessment Monitoring

- Treated like proctoring an exam
- Client file is viewed front to back for eligibility, intake procedures, ranking, etc.
- Are mistakes and missed opportunities due to nervousness or is it a pattern?
- Client education points covered
- Scheduling efficiency-does it make sense with travel

Work in Progress-Looking for patterns

- By this time, I have a good idea on where to focus
- PPE, does it look natural or just because I am there
- Following scope of work-how does it flow?
- Client education
- Train me like you would someone new
- Where is the Field Guide and how are they using itmemory, cards, book, phone
- Is the crew being efficient?
 - Client communication on arrival time
 - Tool lay out

Final Assessment

- Very much like proctoring a QCI
 - Did they hit all the points, cover all the tests, test properly, address concerns
- How closely does the inspector look at the file
- Are there call backs and how is it handled
- Are mistakes just mistakes or are they patterns
- What is general feel of client
- How is the home left
- How is the file closed up

How it overlaps program monitoring

- Procurement procedures
- Audit Libraries
- Inventory of tools and tool condition, general care and calibration
- Production and scheduling

Is Everything Congruent?

- From all the information collected both physically and mentally, does it all line up? Does it make sense?
 - Step back and take a look from a distant perspective
 - Completely remove any training hats
 - Connect the dots as if someone that knows nothing of the program
 - Think of ways to make their procedures more clear and transparent

Exit Interview

- Organize list categorically into:
 - Findings-Attached to a regulation or code
 - Concerns-Methods that are not sound that can eventually lead to a finding (like weak internal controls)
 - Comments, improvements, suggestions,
 - Best Practices-Always find something to highlight

Letter to Agency

- This should reflect the exit summary
- Specific regulations and details are included
- No surprises
- Letter sent within 30 days-response required within 30 days
- Response should include sound ways of addressing what is found and supporting documents if needed

The training relationship

- Always looking for opportunities to train or for training
- Each issue boils down to one basic question:
 - Is it because of training or is it because they just did not want to do it right?

New Mexico Energy \$mart Monitoring

A method to ensure quality

Troy Cucchiara
New Mexico Mortgage Finance Authority
505 767-2256



Technical Monitoring – Making the Most Efficient Use of Time and Resources

Bruce Hagen, ND Weatherization Program Manager



Technical Monitoring – Making the Most Efficient Use of Time and Resources

Number of Homes Monitored

In 2016 we have a combination of QCI methods our agencies are using Some use independent QCI's and some use their estimators For independent QCI's we will do at least 5% For agencies that use their estimators we will do at least 10%

We have eight regions and have estimated 220 completions with the grant We always end up with more completions that estimated We would have to monitor at least 20 homes In reality we will do 30 – 35 homes

We also do file monitoring, administrative monitoring, and fiscal review

Look over client information in the software – look for anomalies or questionable entries

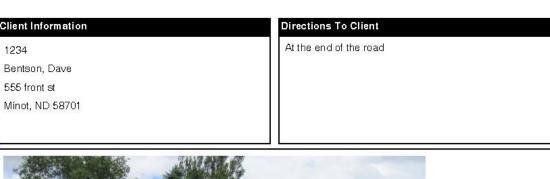
Job Estimate (Work Order)

Job Cost Report

Desk Review Sheet

Other information in the database – Diagnostics, measures, etc.

Job Estimate





Disclaimer

Job Estimate

| Est. Qty. | Material Code | Material Descr | Unit Cost Location | Net Cost | Actual Qty | Actual Cost |
|---|--|--|--------------------|--------------|------------------|-------------|
| 10 | Cellulose - Loose Fill | Cellulose - Loose Fill | \$5.90 | \$59.00 | | \$ |
| 1 | Gable Vents | Gable Vents | \$12.00 | \$12.00 | | \$ |
| | | | | | | \$ |
| | | | | | | \$ \$ |
| | | | Mate | rial \$71.00 | | \$ |
| | | | La | bor \$12.25 | | \$ |
| | | | Ot | her \$0.00 | | \$ |
| | | | Sub Ti | otal \$83.25 | _ | \$ |
| Buffered | | | | | | |
| 4.1001 Ger 4.1006 Attic 4.1003.1 Pi 4.1005.2 Ac | tched/Vaulted/Cath cessible Floors-Lo cessible Floors-Lo | nedralized Ceillings-Lo lose Fill Insulation lose Fill Over Existing | | | | |
| Reference 4.1001 Ger 4.1006 Attio 4.1003.1 Pi 4.1005.2 Ac 4.1005.4 Ac | eral Preparation Openings Ched/Vaulted/Cath Cessible Floors-Lo | ose Fill Insulation | | | | |
| Reference 4.1001 Ger 4.1006 Attio 4.1003.1 Pi 4.1005.2 Ac 4.1005.4 Ac | eral Preparation : Openings tched/Vaulted/Cath :cessible Floors-Lo :cessible Floors-Lo | ose Fill Insulation | | | | |
| Reference: 4.1001 Ger 4.1006 Attio 4.1003.1 Pi 4.1005.2 Ac 4.1005.4 Ac Comments | eral Preparation : Openings tched/Vaulted/Cath :cessible Floors-Lo :cessible Floors-Lo | ose Fill Insulation ose Fill Over Existing | Insulation | Satisfactory | Unsatisfactory [| □N/A |
| Reference: 4.1001 Ger 4.1006 Attic 4.1003.1 Pi 4.1005.2 Ac 4.1005.4 Ac Comments ATTIC - Attic Air | eral Preparation copenings tched/Vaulted/Cath ccessible Floors-Lo | ose Fill Insulation ose Fill Over Existing | Insulation | _ | Unsatisfactory [| |

Job Cost Report

Job Cost Report

Region 9

Job Number 1234 Fund Code 2015 REG Reweatherized Job No

555 front st Phone

Start Date 1/15/2014

Minot 58701

Kings

Bentson, Dave

Secondary Utility: Excel Energy Account Number:

Auditor Bill 1 Dwelling Type Site Built

Date Completed 6/15/2016 Crew Leader Number of Units in Building 1

> Final Inspector | Bill 2 Home Owner No

Comments

had to go back and adjust the new window so it would close tight

Diagnostics

| Blower Door To | est | | | Pressure Pans | | Fu | rnace | | | | | |
|----------------|---------|----------------|----------|---------------------|-------|----|-------------|--------|---|-------|---|-------|
| Pre Test | 2000.00 | ASHRAE | 38.00 | Number of Registers | 10 | | Draft | -9 | | | | |
| Post Test | 1200.00 | Ventilation Ad | lded yes | Total Pre Test | 37.00 | | CO | 26 | | | | |
| MVR | 1286.00 | | | Total Post Test | 6.00 | | Heat Rise | 168.00 | - | 76.00 | = | 92.00 |
| 125% MVR | 1607.50 | | | | | | Repair | no | | | | |
| | | | | | | R | Replacement | no | | | | |

Temperature

45

Job Cost Report

| Itemized Cost | t for Task IA | | | | | |
|-----------------|------------------------|-----------|----------|---------|---|--------------|
| | Bill 2 | 1/15/2014 | 10.00 | 0.00 IA | | |
| Subtotal | | | 10.00 | | | \$180.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Itemized Cost : | for Task IA | | | | | |
| 29 | Cellulose - Loose Fill | \$6.50 | \$188.50 | 29 | 0 | 1/15/2014 IA |
| 20 | Cellulose - Loose Fill | \$6.50 | \$130.00 | 20 | 0 | 1/15/2014 IA |
| 2 | Gable Vents | \$12.00 | \$24.00 | 2 | 0 | 1/15/2014 IA |
| Subtotal | | | \$342.50 | | | |

Desk Review Report

ND DESK REVIEW SHEET

ND DIVISION OF COMMUNITY SERVICES/DCS SFN 59909 (7/13)

| Name | | | Mobile/Tra | ditional | Agency | | Date | | |
|---|--------------------|----------|------------------------|------------------------|-------------------|----------------|-------------------|---------------------|------------------------|
| Bentson | , Dave | | Site B | uilt | Regio | | 9/22/2016 | | |
| MVR | Pre Blower Door | Final BD | CEG Cost | Zonal Air Leakage | Pressure Pan | Duct Blaster | Room to Room | Furnace Cleaning | WCDT |
| 1286.00 | 2000.00 | 1200.00 | \$2500.00 | | 6.00 | 7.00 | | | |
| Measure and SIR | Begin R | End R | Materials Estimated | Materials Installed | Bags Estimated | Bags Installed | Labor Estimate | Labor Installe | Cost Per d Material |
| IP - Perimeter - Above Ground - Bxterior 8.52 | 1 | 6 | \$1489.40 | | | | \$545.19 | | |
| IA-Insulate Attic 7.70 | 19.8 | 50 | \$71.00 | 130.00 | 10 | 20 | \$12.25 | \$180.00 | |
| W - Window Replacement 3.39 | 0.85 | 3.4 | \$155.55 | | | | \$48.99 | | |
| W - Window Replacement 2.24 | 0.85 | 10 | \$205.10 | | | | \$66.95 | | |

Other information in the database

Diagnostics –

Do they pass the standards?

Were all the tests completed?

Any numbers that look out of place?

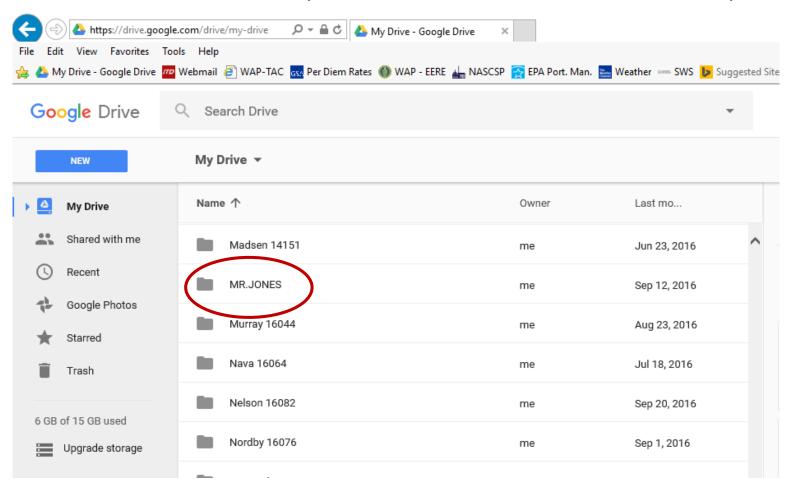
Fuel usages

Measures

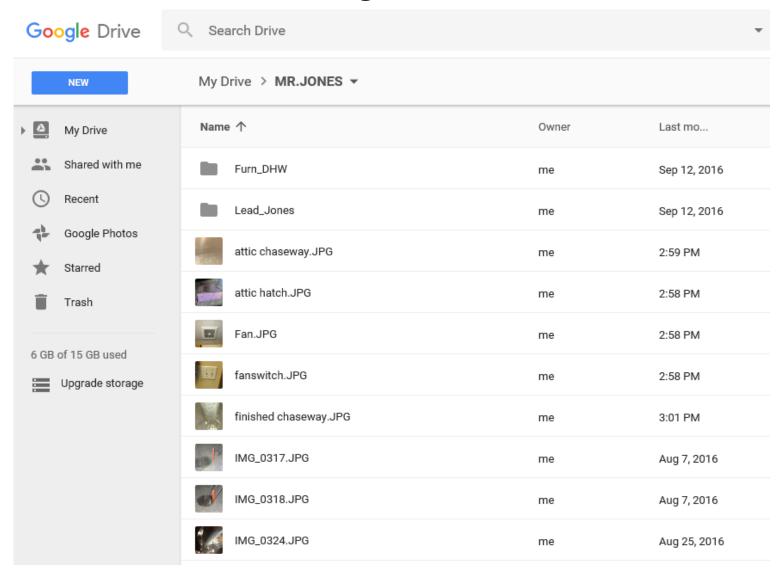
Sub-contractor costs

Google Drive

Look at Google Drive before going and match pictures to file review checklists and measures completed on Job Estimate and Job Cost Report



Google Drive



Google Drive

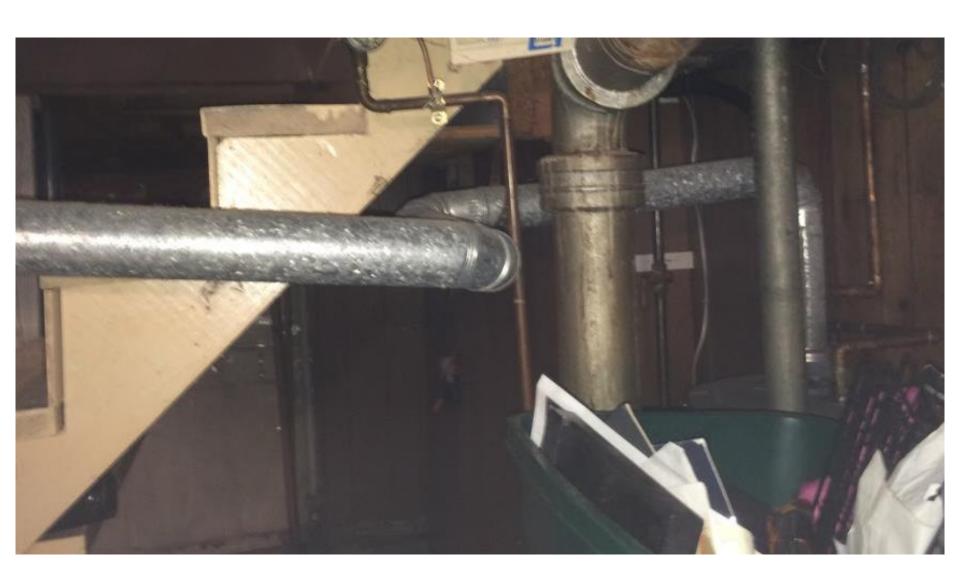




Google Drive



Google Drive



Choose files to review and homes to visit

Send list to agency to have ready

Have them contact clients and set up visits

We usually have them set up back ups in case someone isn't home

Make notes on things to look at in the file review and at the jobsite

The object is to become as familiar as possible with the jobs you are going to

While at the agency -

File review

Check the files for things you found in the preliminary review

Make notes on anything new that you will want to look at when at the jobsite

Document any missing or incorrect paperwork

When doing the review, talk with people at the agency about any questions

You may be able to clear some things up before going to the jobsite

While at the agency -

File review – a good checklist is key!

Coordinator

WEATHERIZATION QUALITY ASSURANCE

Agency

NORTH DAKOTA DIMSION OF COMMUNITY SER MCES SFN 59679 (2/14)

| Fund Code | Job/Ident | tifier Number | Completed | | Date of Completion | | | | |
|-----------------------------------|--------------|------------------|--|--------------|--------------------|--|--|--|--|
| Name | | | Address | | | | | | |
| | | | | | | | | | |
| City | | | State | ZIP Code | | | | | |
| 5 - F4 | | | | Crew Foreman | | | | | |
| Estimator | | Agency Inspector | | Crew Foreman | | | | | |
| | | • | | | | | | | |
| Housing Type | | | | | | | | | |
| Site Built | Mobi | ile Home 🔲 Shelt | er 🔲 Multi Family | (5 or More) | | | | | |
| Primary Fuel Type | | | | | | | | | |
| ■ Natural Gas | Propan | e 🔲 Electric | Oil 🔲 | Other | | | | | |
| Combustion Appliances Preserv | t | | | | | | | | |
| Secondary Heat | Cook 9 | Stove 🔲 DHW | Fireplace Other | | | | | | |
| File Review | | | | | | | | | |
| Eligibility Determination Present | t | | Yes No | | | | | | |
| Proof of Ownership or Signed R | ental Agre | ement | ☐ Yes ☐ No | | | | | | |
| Unit Assessed Using | | | ☐ Energy Audit | | | | | | |
| Work Agreement/Notice to Proc | eed | | ☐ Yes ☐ No | | | | | | |
| Invoices/Purchase Orders For A | dl Materials | : Installed | ☐ Yes ☐ No | | | | | | |
| Lead-Paint Notification Docume | ntation | | Yes No N/A post-1978 or verified as "lead free" | | | | | | |
| Certified Renovator and Test Ki | t Documer | ntation | Yes No No N/A post-1978 or verified as "lead free" | | | | | | |
| | | | | | | | | | |

Match work and invoices to what is observed on the home

Job Cost Report

0 1/15/2014 IP

\$225.00 \$1,220.00

| Measure - IA - Densepack A Perform Measure: No Est. Qty. Material Code 11 Cellulose - Dense Pack | ttic Material Descr Cellulose - Dense Pack | Unit Cost \$5.90 | Location | | NetCost \$6490 | Actual City | Actual Cost \$ | Region 9 Job Number 555 front st Minot 59701 Kings Bentson, Dav | | Fund C | ode 2015R one | EG | | | | Reveatherized Job No |
|--|---|---------------------|-----------------|--------------|-------------------|--------------------|----------------|--|--|-----------|-------------------|---------------------|--------------------|----------------------|------------------------------|----------------------|
| | | | | Material | \$6490 | | \$ \$ | Subtobal | Dmp | Date. | Hours Work | ed Overtime 1 | Worked Tesk | Code | \$190.00 | |
| | | | | | | | | Itemized Gos | tforTeuskIA Bill 2 | 1/15/2014 | 10. | 20 | 0.00 IA | | | |
| | | | | Labor | \$179.63 | | £ | Subtobal | Dill E | | 10. | | 0.00 00 | | \$180.00 | |
| | | | | Other | 00.00 | | \$ | Itemized Cos | t for Task IP | | | | | | | |
| | | | | | | - | | | Bill 2 | 1/15/2014 | 12. | 00 | 0.00 P | | | |
| | | | | Sub Total | \$244.53 | | ¥ | | Bill 1 | 1/15/2014 | 12. | | 0.00 P | | | |
| | | | | | | _ | | Sub to bal | | | 24. | 00 | | | \$400.00 | |
| First Year Savings = 16.03 * S | Simple Payback = 152 | 5 yrs*S.I.R = 1 | 27 * Lifetime : | =20.00 Pre F | = 9.8 Post R = | 22.7 Buffering = S | emi Buffered | Itemized Gos | tfor Task IVV Bill 2 | 1/16/2014 | 5. | | 0.00 NV | | | |
| Referenced Specifications | | | | | | | | Subtobal | DIII 2 | 1710/2014 | 5. | _ | 0.00 144 | _ | \$90.00 | |
| 4.1001 General Preparation | | | | | | | | | | | | | | | | |
| 4.1001.6 Enclosed Afic Stora | ge Platform Floor - Der | nse Pack Installi | ation | | | | | | | | | Material | Cost Debail | | | |
| Comments | | | | | | | | Net Quantity Used | Malerial Description | 1 | UnitCost | NetCost | Quantity Issued | Quantity Returned | Issue Date Task Coo | de |
| | | | | | | | | I te missed Cost | for Teack D | | | | | | | |
| ATTIC - N/A | | | | | | | | | Lockset | | \$15.00 | \$15.00 | 1 | 0 | 1/15/2014 D | |
| | | | | T | | | | 1 | steel door | | \$113.79 | \$113.79 | 1 | 0 | 1/15/2014 D | |
| Attic Air Sealing Performe | ed | | | ☐ Sati | sfactory 🔲 | Jnsatisfactory [| J N/A | Sub bo bad | | | | \$120.79 | | | | |
| Attic Insulation Installed | | | | ☐ Sati | sfactory 🔲 | Unsatisfactory | T N/A | I tem ised Cost | | | | | | | | |
| | | | | | | | | | 25 watt off builds | | \$3.00 | \$66.00 | 22 | 0 | 1/15/2014 EB | |
| Insulation Certificate Post | ted | | | ☐ Sati | sfactory | Unsatisfactory [| N/A | Sub to bad Iterm ised.Cost | C - M - 1 M | | | \$66.00 | | | | |
| Heat Source/Vent Damm | ina | | | ☐ Sati | sfactory | Jnsatisfactory [| I N/A | | New Furnace Instal | | 2,600.00 | \$2,600.00 | 1 | 0 | 1/15/2014 F | |
| Treat obtained Fort Datini | 9 | | | _ | | | | Sub bobad | THE THE STATE OF T | | | \$2,600.00 | · | | | |
| Attic Access Insulated an | d Mechanically Fast | ened | | ☐ Sati | sfactory | Jnsatisfactory | N/A | I tem ised C'os t | for Track HS-A | | | | | | | |
| Energy Related Attic Rep | airs Documented | | | □ Sati | sfactory | Jnsatisfactory | IN/A | 4 | 100 cfm fan | | \$100.00 | \$400.00 | 4 | 0 | 4/10/2015 HS-A | |
| Comments on Attic | and Documented | | | | | Distribution L | 1000 | Տահետ bad | | | | \$400.00 | | | | |
| Comments on Attic | | | | | | | | I tem ised. Cost | | | | | | | | |
| | | | | | | | | 29 | Cellulose - Loose Fi | | \$6.50 | \$100.50 | 29 | 0 | 1/15/2014 IA | |
| | | | | | | | | 20 2 | | III | \$6.50 \$12.00 | \$130.00 \$24.00 | 20 2 | 0 | 1/15/2014 IA 1/15/2014 IA | |
| | | | | | | | | չ Տահետահա | Gable Velib | | \$12.00 | \$342.50 | - | ۰ | 1713/2014 18 | |
| | | | | | | | | I tem issed Cost | for Tesk IP | | | y5-4E.00 | | | | |
| | | | | | | | | 1 | | n | \$120.00 | \$120.00 | 1 | 0 | 1/15/2014 IP | |
| | | | | | | | | 10 | | | \$4.00 | \$40.00 | 10 | 0 | 1/15/2014 IP | |
| | | | | | | | | 15 | construction adhesi | ve | \$4.00 | \$60.00 | 15 | 0 | 1/15/2014 IP | |
| | | | | | | | | 31 | Foundation Panel | | \$25.00 | \$775.00 | 31 | 0 | 1/15/2014 IP | |

15 J Channel for Foundation

Document any missed opportunities

| t. Oty. | Material Code | Material Descr | Unit Cost | Location | | NetCost | Actual City | Actual Cos |
|---|--|---------------------------------------|-----------------|----------|-----------|------------|--|-----------------|
| 11 | Cellulose - Dense Pack | Gellulose - Dense Pack | \$5.90 | | _ | \$64.90 | | \$ \$ |
| | | | | | =_ | | | \$ \$ |
| | | | | ľ | Vlaterial | \$64.90 | | \$ |
| | | | | | Labor | \$179.63 | | \$ |
| | | | | | Other | \$0.00 | | \$ |
| | | | | Su | ub Total | \$244.53 | | \$ |
| 1001 Ge 1001.6 E | _ | e Platform Roor - Der | nse Pack Instal | aíon | | | | |
| 1001 Ge 1001.6 E omment | neral Preparation nolosed Afic Storag | e Platform Floor - Der | nse Pack Instal | lation | | | | |
| 1001 Ger 1001.6 E omments | neral Preparation nolosed Afic Storag | | nse Pack Instal | lation | ☐ Sati | sfactory 🔲 | Unsatisfactory | □ N/A |
| 1001 Ger 1001.8 E omments ATTIC - | neral Preparation noloæd Afic Storag s | | nse Pack Instal | tation | _ | | | □ N/A |
| 1001 Get 1001.8 E omments ATTIC - Attic Air | neral Preparation notosed Afc Storag N/A Sealing Performe | d | nse Pack Instal | iaíon | ☐ Sati | sfactory | Unsatisfactory | |
| 1001 Get 1001.8 E Domments ATTIC - Attic Air Attic Insulatio | neral Preparation notosed Afo Storages N/A Sealing Performe | d | nse Pack Instal | laton | ☐ Sati | sfactory | Unsatisfactory | □ N/A □ N/A |
| 1001 Gei 1001.8 E omments ATTIC - Attic Air Attic Ins Insulatic | N/A Sealing Performe ulation Installed in Certificate Post urce/Vent Dammi | d | | lation | Sati | sfactory | Unsatisfactory Unsatisfactory Unsatisfactory | □ N/A □ N/A |
| ATTIC - Attic Air Attic Insulatic Heat So | N/A Sealing Performe ulation Installed in Certificate Post urce/Vent Dammi | d ed ng d Mechanically Fasto | | lation | Sati | sfactory | Unsatisfactory Unsatisfactory Unsatisfactory | N/A N/A |
| ATTIC - Attic Air Attic Insulatic Heat So Attic Acc | N/A Sealing Performe ulation Installed on Certificate Post urcer/Vent Dammin | d ed ng d Mechanically Fasto | | lation | Sati | sfactory | Unsatisfactory Unsatisfactory Unsatisfactory | N/A N/A N/A N/A |
| ATTIC - Attic Air Attic Insulatio Heat So Attic Acc | N/A Sealing Performe ulation Installed on Certificate Post urce/Vent Dammin cess Insulated an | d ed ng d Mechanically Fasto | | tation | Sati | sfactory | Unsatisfactory Unsatisfactory Unsatisfactory | N/A N/A N/A N/A |

WEATHERIZATION ASSISTANCE PROGRAM ESTIMATOR FIELD INSPECTION HORTH DAKOTA DIVISION OF COMMUNITY SERVICES

| SFN 59495 (01/12) | | | | |
|-----------------------------|---------------|--------|--------------------------|------------------|
| Name | | | Job Number | Date |
| Address | | | City | Home Phone |
| Dire ctions | | | | Work Phone |
| Audited By | Furnace Work? | F | leat Loss Needed? | Number of Rooms |
| Conditioned Building Specs. | Building Age: | | | Lead Book? |
| | х | | | Mobile Home |
| : | х | | | ☐ 1 Story |
| : | x | | | ☐ 1½ Stories |
| : | х | | | 2 Stories |
| : | х | | | 2½ Stories |
| | Combustio | ı Appl | ances Present | |
| Secondary Heat Coo | k Stove DHW | Firepl | ce Other | |
| General He | at Waste | | | seload. |
| | | | hts on 2 hours or more | Existing Wattage |
| | | Ref | rigerator Make and Model | Kwh/Yr |
| | | | | |
| | | | Health: | and Safety |
| | | Mo | ld or Moisture Problems? | |
| | | | | |

| | | Exist | Add | Comments |
|---------------------|----------|---------|---------|----------|
| | Miscel | laneous | | |
| Water Heater Jacket | | Yes INo | Yes INo | |
| Pipe Insulation | | | Yes No | |
| CO Detector | Location | | | |
| Smoke Detector | Location | | | |
| REEP | | | | |
| Dryer Vent | | | | |
| Dryer Vent Hose | | | | |
| Roof Jack Kit. | Location | | | |
| | | | | |

Check Diagnostics

ND WX DIAGNOSTIC FIELD FORM

NORTH DAKOTA DEPARTMENT OF COMMERCE DIVISION OF COMMUNITY SERVICES

| Nan | ne | | | | | | J | lob# | | | D | ate | | | | _ |
|--------------|----------------------------------|-------|------------|------|--------------|--------------|-------|-------------------|--------------|---------------------------------|-----------|-----------|--------|-------|-----------|-----|
| | | ВІ | LOWER DO | OR | TEST DAT | A & E | LOV | WER DO | OR C | GUIDED A | IR SEAL | ING (WC | EG) | | | _ |
| Test | t Conditions: | | | | Baseline | | | | | Door Ope | | | | | | _ |
| | 1 | l est | | | CFI | VI 60 | | | | CE G/100 CFM ₆₀ = \$ | | | | | | |
| Initial Test | | | | | | | | No. in C | rew | Minutes | CFMsa1 | Reduction | Cost | per | 100 CFI | Mso |
| Test | t 1 | | | | | | | | | | | | | | | |
| Test 2 | | | | | | | | | | | | | | | | |
| Test 3 | | | | | | | | | | | | | | | | |
| Test | t 4 | | | | | | | | | | | | | | | |
| Test | 15 | | | | | | | | | | | | | | | |
| Fina | il Test | | | | | | | | | Minimum | Ventilati | on Rate = | | | | |
| | | | | | ZC | HAL | PRE | SSURE | TES | TING | | | | | | |
| Hou | se at -50 pa | | | | Test 1 | Te: | st 2 | Zone | | | | Test | 1 | | Test 2 | |
| Zon | e | | | | | | | Before H | tole | | | | | | | |
| Zon | e | | | | | | | CFM50 | | | | | | | | _ |
| Zon | e | | | | | | | House t | o Zo | ne Pressu | re | H/Z or | Z/O | Н | /Z or Z/C | 5 |
| Zon | е | | | | | | | After Hole | | | | | | | | Τ |
| Zon | e | | | | | | | CFM50 | | | | | | | | |
| REF | RIGE RATO | R | | | | | | House t | o Zo | ne Pressu | re | | | | | |
| Bran | nd | | | | | | | CFM50 Difference | | | | | | | | _ |
| Mod | lel# | | | | | | | Maximum Reduction | | | | | | | | |
| KW | Н | | | | | | | Square | Inch | es | | | | | | |
| | | | | DUC | TWORK L | EAK. | AGE. | AIR HAN | DLE | R ASSES | SMENT | | | | | |
| | | n-to | -Room Pres | | e Testing | _ | | Duct | Leal | kage to 0 | utdoors | (Testat2 | 5 Pasi | cals | Positive] |) |
| # | Room | | Test | # | Room | Te | st | | | | | Test | | | Test 2 | |
| 1 | | | | 5 | | | | Test Pre | | | | | Pa | | | Рa |
| 2 | | | | 6 | | | | | | sed (circle | one) | Open,1 | | Οp | en, 1, 2, | |
| 3 | | | | 7 | | | | Fan Pre | | | | | Pa | | | Рa |
| 4 | | _ | | 8 | | | | | | akage to d | | | CFM | _ | | FM |
| | ise to Outsi | | | | | | | | | kage to Ou | | | in² | _ | | in² |
| | oom is more : se, relieve pre | | | tere | nt from main | body | of | | | ge as Perc ed Floor A | | % | | | | % |
| | | | RESSURE P | AN | TE STING A | AND I | LE AF | • | | | | , I | Pressu | ure F | an Tota | als |
| # | Room | | Test 1 | П | Test 2 | # | R | oom | Т | Test 1 | T- | est 2 | Pre | | Post | _ |
| 1 | | Ħ | | Т | | 8 | | | † | | H | | | | | _ |
| 2 | | | | | | 9 | | | | | | C | om m e | ents: | | |
| 3 | | | | | | 10 | | | Т | | | | | | | |
| 4 | | | | | | 11 | | | | | | | | | | |
| 5 | | | | | | 12 | | | Т | | | | | | | |
| 6 | | | | | | 13 | | | | | | | | | | |
| 7 | | | | | | 14 | | | Т | | | | | | | |

ND WX WORST CASE SPILLAGE TEST

ND DEPARTMENT OF COMMERCE/DCS SFN 59252 (04/16)

| Nam e Jo | ob# | Date | |
|--|-------------------------|-------------------------------|------------------------------|
| COMBUSTION APPLIANCE ZONE (C | CAZ) WRT OUTSIDE TE | ST | |
| Test Steps (refer to Field Standards for de | etails) | Test 1 | Test 2 |
| Am bient CO must be monitored at all times during testing. (Se | ee table on bottom.) | | |
| Deactivate all combustion appliances and exhaust fans. | | | |
| Inspect combustion appliances and venting before test setup. | | | |
| 4. Put dwelling in wintertime condition; close all exterior doors a | nd windows. | | |
| Clean/replace furnace and dryer filters. | | | |
| 6 Open all interior doors with return air or exhaust fan(s) and/or | dryer on other side. | | |
| 7. Close all other interior doors. | | | |
| 8. Setup and adjust manometer to measure pressure of CAZWR | T outdoors. | | |
| 9. Record Baseline Pressure of CAZ WRT outdoors or run Base | line function on DG-700 | . Ра | P |
| 10. Turn on all exhaust fans, and dryer. (Do not turn on whole ho | use cooling fan.) | Pa | P |
| If furnace exists, check to see if greater depressurization exists handler on. (If the air handler fan cannot be activated witho furnace and air handler and proceed). | | te Pa | Р |
| 12. Open and close CAZ door to verify where greater depressurize | zation exists. | Pa | P |
| 13. Record the position of the door to the CAZ. (circle door posi | ition) | Open/ Closed/ No Change | Open/ Closed/ No Chang |
| 14. From the above steps, enter the most negative number of the | CAZ WRT outdoors. | Pa | _ |

| FLUE SPILLAGE | | | | | | | | |
|--|----------|----------|--|--|--|--|--|--|
| Under worst-case conditions, fire appliances individually. Begin with the smallest BTU appliance, Record spillage at 2 minutes. If vent is cold record spillage at 5 minutes. (SEE NOTES BELOW). | Spillage | Spillage | | | | | | |
| Water Heater | Yes / No | Yes / No | | | | | | |
| Furnace/Boiler | Yes / No | Yes / No | | | | | | |
| Other Appliance description: | Yes / No | Yes / No | | | | | | |
| 2. If appliance fails/spills, correct problem. (i.e. makeup air, seal open returns, etc.) | | | | | | | | |
| 3. If dwelling has other combustion appliance zones, repeat test there. | | | | | | | | |
| 4. Return dwelling, exhaust fans, and combustion appliances to normal settings. | | | | | | | | |
| 5. Record highest ambient CO levels during spillage testing. | ppm | ppm | | | | | | |

| Ambient CO Limits | |
|-------------------|---|
| 9 - 35 ppm | Look for sources of CO, advise resident, and continue testing. |
| 36 – 69 ppm | Shut off all combustion appliances, ventilate, and advise resident. |

Notes: Under worst-case conditions, fire appliances individually. Always begin the smallest BTU appliance. Spillage must not exist after 2 in inutes in a warm wert (i.e. water heaters, furnaces in heating mode). Spillage must not exist after 5 minutes for furnaces with cold verit (not during heating season).

| Signature | Date |
|-----------|------|
| Signature | Date |

ND FUEL FURNACE FIELD INSPECTION

NORTH DAKOTA DEPARTMENT OF COMMERCE DIVISION OF COMMUNITY SERVICES SFN 59497 (07/15)

State of North Dakota Weatherization Assistance Program Heating System Clean, Tune, and Inspection Form

| | | Phone | |
|-------|--------|---------|-------|
| | | | Zip |
| | * | Owner/R | enter |
| Input | Output | Date | |

| | Pre-test | Post-test | | Pre-test | Post-test |
|--------------------------|-----------|-----------|-------------------------|----------|-----------|
| Gas leaks | □Yes □No | ☐Yes ☐No | Open air returns | ∐Yes □No | □Yes □No |
| Venting problems | □Yes □No | □Yes □No | Missing main shutoff | □Yes □No | □Yes □No |
| Carbon indicators | □Yes □No | □Yes □No | Asbestos | □Yes □No | □Yes □No |
| | | | Heat exchanger check | □Yes □No | □Yes □No |
| Anticipator: | Measured: | | Set at: | Reset: | |
| Cycling on high limit | □Yes □No | □Yes □No | Oil system smoke test | | |
| Fan on (15 sec)/off temp | / | | Draft, breech | | |
| Spillage/backdraft | □Yes □No | □Yes □No | Draft, overfire | | |
| Steady State Heatrise | Pre | | Steady State Heatrise | Post | |
| Carbon monoxide | Preppm | Postppm | High limit temp | | |
| Check filter | □Yes □No | □Yes □No | Clean heat exchanger | □Yes □No | □Yes □No |
| Cleaned blower | □Yes □No | □Yes □No | Check belt | □Yes □No | □Yes □No |
| Blower amp. draw | □Yes □No | □Yes □No | A coil dirty | □Yes □No | □Yes □No |
| Netstack temp | | | 02% or CO2% | | |
| Efficiency % | · · | | Run final furnace cycle | | □Yes □No |
| Duct problems | | | | | |

| H2O heater CO | ppm | ppm | H20 heater Draft | | | | | | | |
|---|-----|-----|------------------|--|--|--|--|--|--|--|
| At the time of this inspection, this heating system was operating properly. | | | | | | | | | | |
| ☐ Comments/Warning | | | | | | | | | | |

| Technician Signature | Date |
|----------------------|------|
| | |

I understand the above problems:

Is the client satisfied or are there problems?

Review Health and Safety questionnaire
Review notifications – Lead, Asbestos, Radon, etc.
Has the client seen any reduction in energy costs?
Are there any problems with the work?
Were there any problems with the crew?
Are there any questions about what was done?
Are there any questions about what was not done?

Exit interview -

We normally meet with the Agency Director and the Weatherization Coordinator

In most cases we try to meet with the crews if time allows

We go over any findings

Talk about observations of any new methods and good work

Discuss any training that might be indicated

Send the written report -

Within 30 days we are required to send out the written report

Agency then has 30 days to respond to any findings or callbacks

Response must include verification of fixing any problems that were found

We may check again at the next monitoring if we have questions about the response



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Devils Lake, ND 58301
701-390-4806

bahagen@nd.gov

www.ndwap.com





Quality Assurance State and Local Level Monitoring

National Association of State and Community Service Programs Omaha, Nebraska

September 30, 2016

Hoyt O'Brien

Wisconsin Division

of Energy, Housing and Community home energy +

Resources



Three State Comparison...

- New Mexico
- North Dakota
- Wisconsin





What is the same

- 100 percent QCI on DOE units
- State completes QCI on at least 5 or 10 percent of completed units
- Administrative Review completed at all subgrantees





What is the same

- Everyone uses multiple checklists that look very similar
- Admin reviews, file reviews, procurement reviews are looking at the same thing
- All DOE inspections are completed by certified QCI





- Territory size
 - -New Mexico 121,412 square miles
 - North Dakota 70,704 square miles
 - -Wisconsin 65,503 square miles





Number of contracts

- New Mexico two WAP contracts
- –North Dakota seven WAP contracts
- -Wisconsin 22 WAP contracts





Number of contracts

- New Mexico two WAP contracts
- –North Dakota seven WAP contracts
- -Wisconsin 22 WAP contracts





- Annual dollars and units in WAP
 - New Mexico \$1.8 million DOE
 - 200 DOE units
 - North Dakota \$2.3 million DOE + EAP
 - 220 DOE units 700-800 units
 - -Wisconsin \$6.5 million DOE + \$12M LIHEAP + \$36.9M Public Benefits \$55.4M
 - 787 DOE + EAP and PB about 5,608 units





- BPI QCI certified inspectors
 - -New Mexico 12

-North Dakota - 17

Wisconsin – 68 – most work for the division or one of the agencies



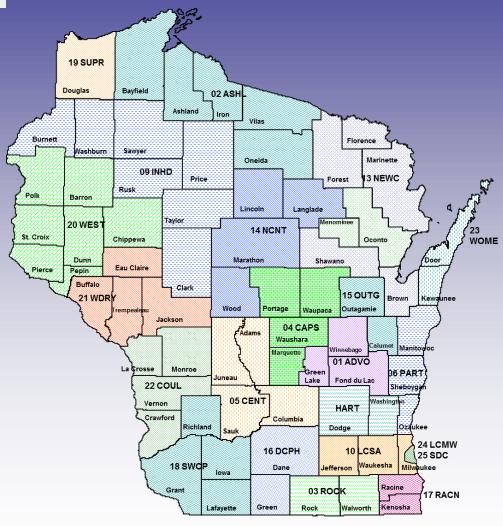


- State staff supporting WAP
 - -New Mexico ~2 this is a guess
 - Also monitor additional programs
 - -North Dakota ~2 this is a guess
 - Also monitor additional programs
 - -Wisconsin 9 or 10
 - Also complete 200 emergency furnace inspections





agencies



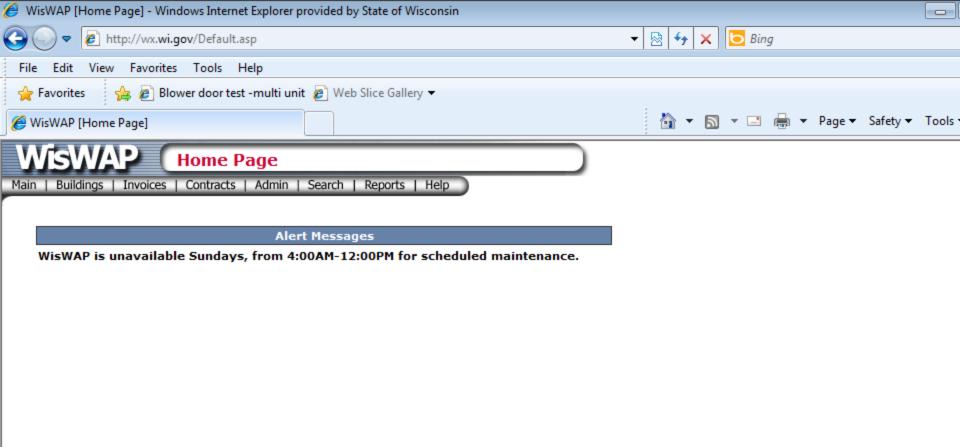




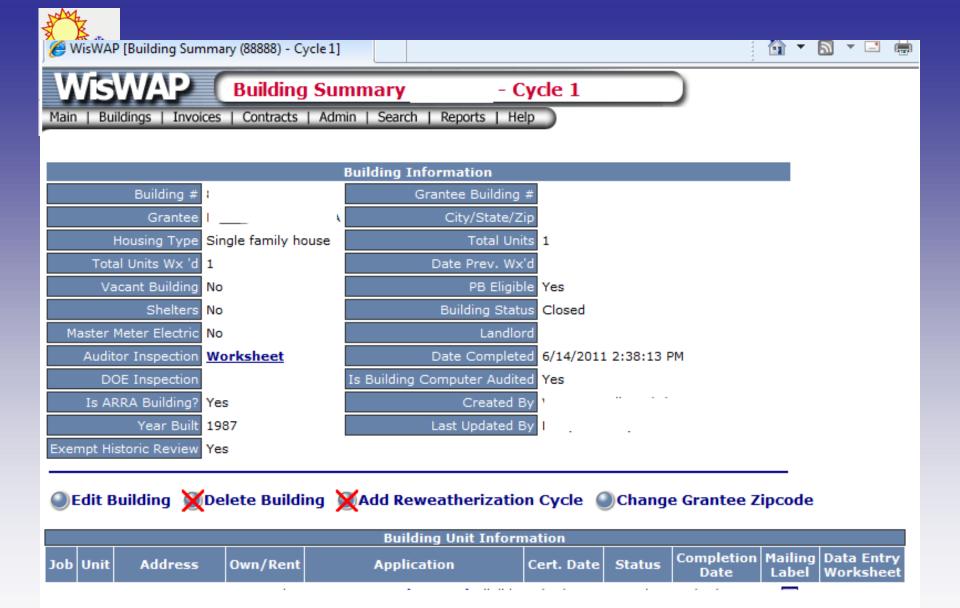
Wisconsin Income Verification

- All income verification is completed by energy assistance staff and entered into the Home Energy Plus online system for 72 counties and 7 tribes
- Wx agencies import minimal customer information into WisWAP

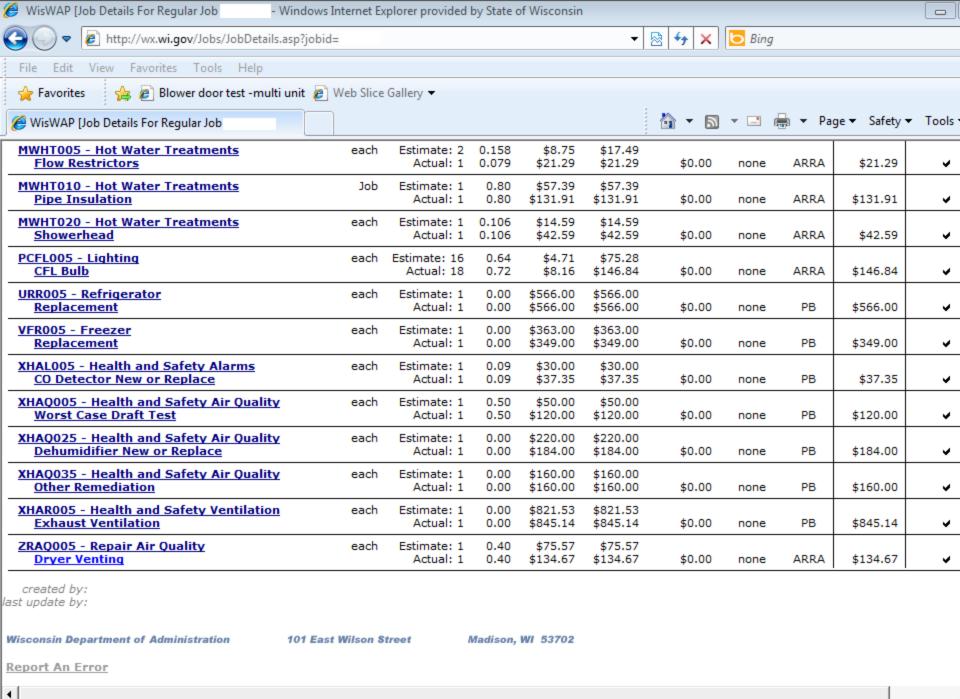




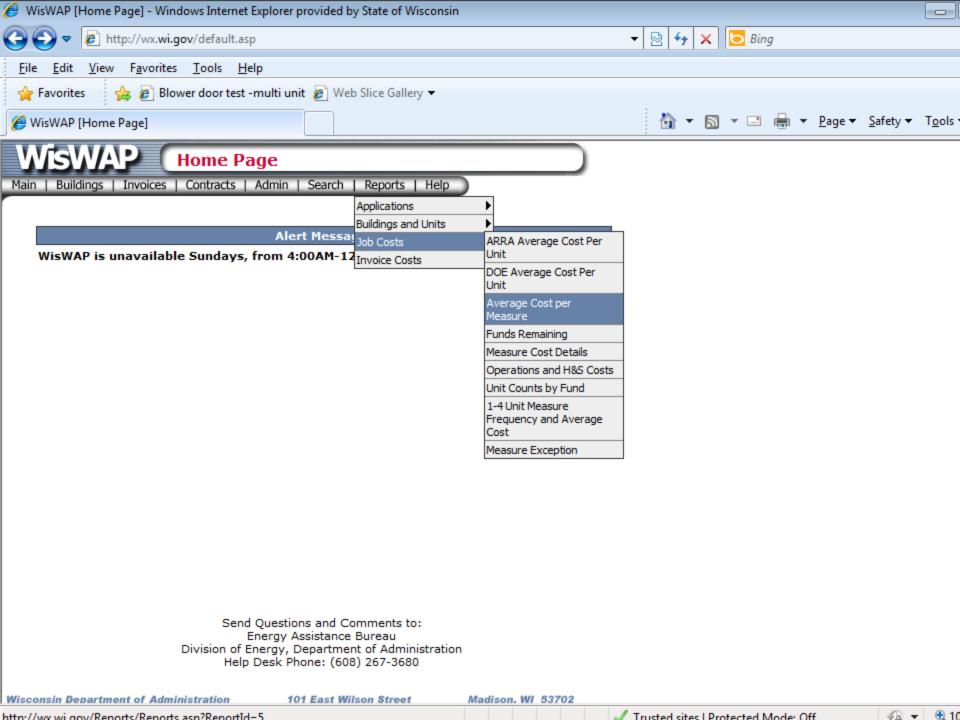
Send Questions and Comments to: Energy Assistance Bureau Division of Energy, Department of Administration Help Desk Phone: (608) 267-3680







http://www.igov/lohs/lohMeasures.asp?iohid=100435&iohmeasureid=1426976







Monthly Production vs Contract Plan

Contract AD119500.17 2012 Contract Plan and Status

Selection Criteria: Report Type: By Grantee | Grantee: Racine/Kenosha CAA - (17) | Contract Year:

2012

Grantee Name

17 Racine/Kenosha CAA

Total Budget

\$3,454,450.00

Total Units

402

Expenditures

Production

| Month | Planned Expenditures | Actual Expenditures | % of Planned Expenditures | YTD Total Actual Expenditures | YTD % of Cummulative Planned Expenditures | | | % of Planned Units | | YTD % of Cummulative Planned Units |
|-------|-------------------------|------------------------|------------------------------|----------------------------------|---|----|----|-----------------------|-----|--|
| Jul | \$261,171.00 | \$211,836.01 | 81.1% | \$211,836.01 | 81.1% | 30 | 52 | 173.3% | 52 | 173.3% |
| Aug | \$257,270.00 | \$317,525.23 | 123.4% | \$529,361.24 | 102.1% | 30 | 42 | 140.0% | 94 | 156.7% |
| Sep | \$339,360.00 | \$299,258.80 | 88.2% | \$828,620.04 | 96.6% | 40 | 0 | 0% | 94 | 94.0% |
| Oct | \$256,270.00 | \$266,567.20 | 104.0% | \$1,095,187.24 | 98.3% | 30 | 78 | 260.0% | 172 | 132.3% |
| Nov | \$343,747.00 | \$228,153.83 | 66.4% | \$1,323,341.07 | 90.8% | 40 | 21 | 52.5% | 193 | 113.5% |
| Dec | \$276,085.00 | | | | | 30 | 0 | | | |
| Jan | \$259,740.00 | | | | | 30 | 0 | | | |
| Feb | \$258,657.00 | | | | | 30 | 0 | | | |
| Mar | \$261,363.00 | | | | | 30 | 0 | | | |
| Apr | \$283,754.00 | | | | | 35 | 0 | | | |
| May | \$314,771.00 | | | | | 35 | 0 | | | |
| Jun | \$342,262.00 | | | | | 42 | 0 | | | |

Actual Expenditures

\$1,323,341.07

% of Annual Budget

38.3%

YTD Total Units

193

% of Annual Units Goal 48.0%



Monitoring Staff

Wisconsin Quality Assurance Section Staff includes

- Three Administrative Review positions.
- Five On-site technical assistance and file review positions. All QCI
- Subcontracted state QCI inspections.
- Additional desk monitoring and support staff.





Support for agencies

 Weatherization Field Guide Weatherization
 Contract Planning
 Workbook

Weatherization
 Manual

 Technical Assistance

 Help Desk; email or phone call Training





Trainings and Certifications

- Effective Complaint Resolution
- Deferral of Service New
- Developing & Implementing Effective Presentations (Train-the-Trainer)
- Asbestos O&M Training for DES Staff
- State Procurement Training
- Understanding Boiler Systems
- Monitoring Weatherization Assistant
- Working with the Electronic Diagnostic Workbook
- Wisconsin Weatherization Manual
- Multi-family Policy & Reporting
- Deferral of Services Policies
- Team Building Coaching & Retaining Staff
- The Manager's Dilemma: Do I Manage the Work or the People
- 12 Acts of Courage to Change Meetings for Good
- Keeping Morale High During Difficult Times
- On-the-Job Ethics (Management perspective)

- Inventory Management State & Federal Requirements
- Subcontractor Management
- Procurement Success from Start to Finish
- Federal Fiscal Requirements
- OSHA Basics for Managers
- WisWAP Data Entry New Worker
- WisWAP Data Entry Advanced
- WisWAP Reporting for Management
- WisWAP Training Topic TBD
- Wx Auditor/Inspector Guide Review
- Weatherization Assistant Update
- Weatherization Assistant Software Update FY16
- Working on a Team for Auditors & Inspectors
- Quality Control Inspector Written Exam Preparation (QCI Candidates)
- Quality Control Inspector Written Exam Preparation (QCI Candidates)
- Targeted Dense-Pack and Advanced Insulation Techniques
- Air Sealing Through Zone Pressure Diagnostics





More trainings...

- Asbestos Management Planner
- Asbestos Inspector
- Project Timeline Management
- Planning for End State
- Component Classroom w/Field
- Basic Energy Auditor
- Intermediate Energy Auditor
- Final Inspector Training
- Understanding Boilers
- Forced Air Heating System Testing & Diagnosis (including combustion safety)
- Mobile Home Energy Auditor Training
- Component Classroom w/Computer Lab
- Weatherization Assistant Beginner
- Weatherization Assistant Intermediate
- Weatherization Assistant Multi-family
- WI Wx Installer Field Guide Review

- Lead Renovator
- Lead to Renovator Refresher
- Asbestos O&M
- Mobile Home Weatherization
- Installing Ventilation Systems
- Spray Foam in Weatherization
- Mold Awareness
- Weatherization Boot Camp
- Infrared Scanning
- Distribution System Testing & Sealing
- Basic Diagnostics (Blower door, WCD, etc.)
- Advanced Diagnostics (ZPD)
- WCD, Water Heater Draft, Zone Pressure Diagnostics





Pre-Visit Preparation

Review WisWAP reports

- Monthly Production versus Contract Plan
- Unit Status
- Weatherized Unit Duration Reports
- Reason Deferred
- Average Cost Per Measure
- Measure Cost Details
- 1-4 Unit Measure Frequency
- Expenditure Detail by Grantee





Onsite Visit Activities

- Review agency project files
- Record review information
- Review energy audit
- Review diagnostic workbook
- Collect wdz, diagnostic workbook, audit photos, final inspection photos as directed
- Determine if there are recent or planned Agency staff changes within their Wx program and/or Fiscal or Management
- Review any contractor management, quality, and/or production issues



Onsite

- Determine if there are any upcoming plans for new procurements.
- Work flow Record the current quantities of-
 - applications
 - audits
 - units issued for contractor/crew work
 - final inspections
 - completed units
- Compare to the Agency contracted unit goal
- Agency Administrative Review Quality Assurance Plan follow-up





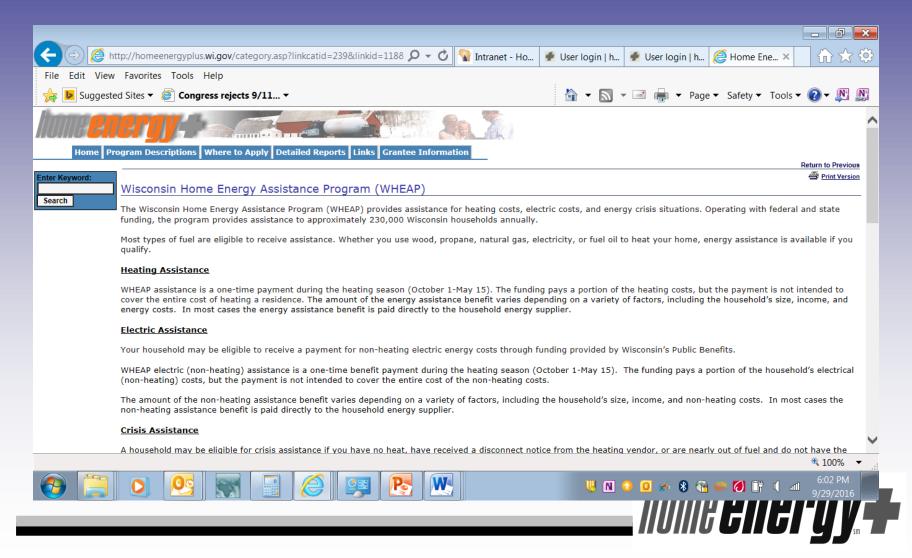
Onsite technical assistance

- Field Quality Assurance Monitors are onsite monthly or every other month
- In the field with crews, energy auditors and final inspectors
- Working with agency management based on Quality Assurance Plan developed by Administrative Review team



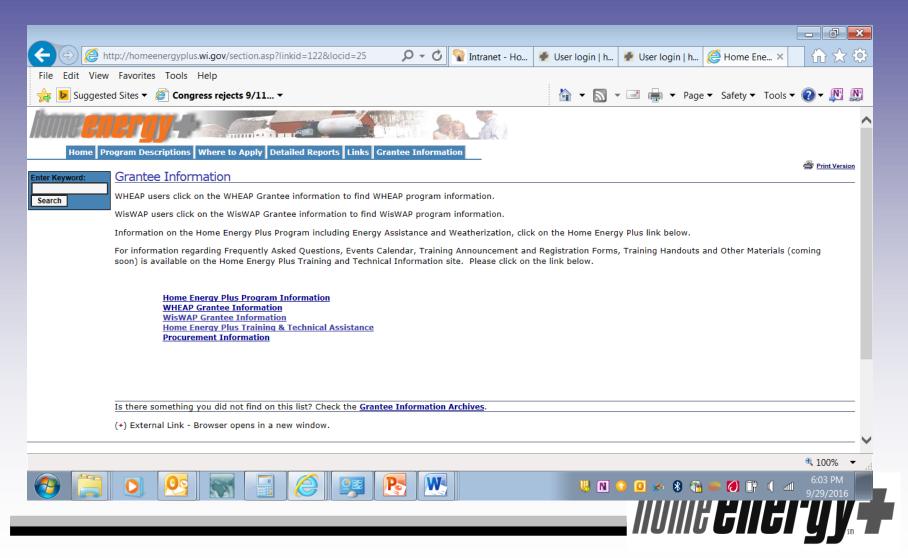


Home Energy Plus site



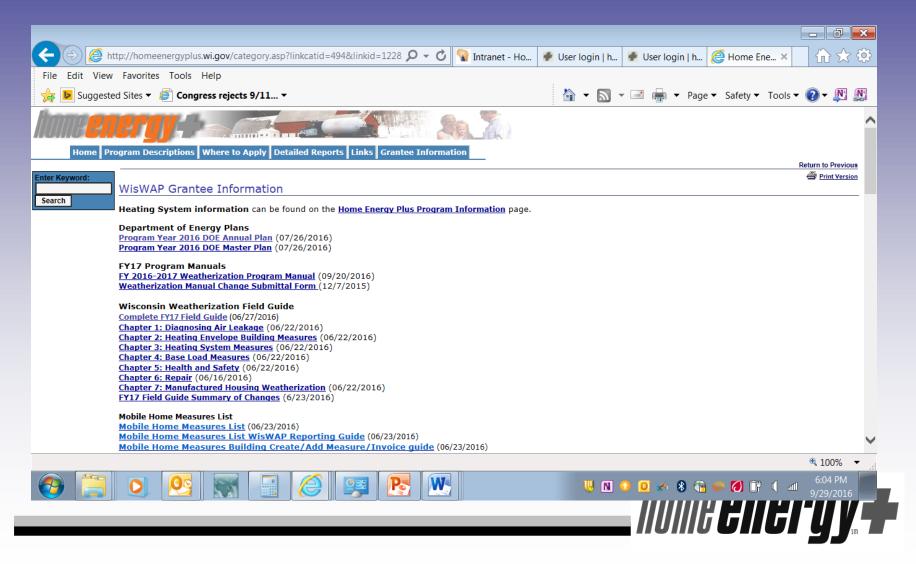


WisWAP Selection



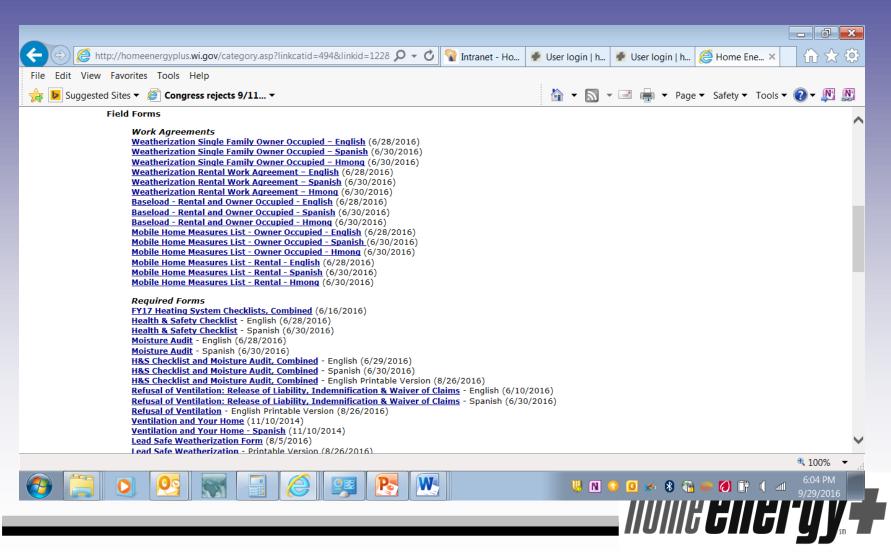


Documents



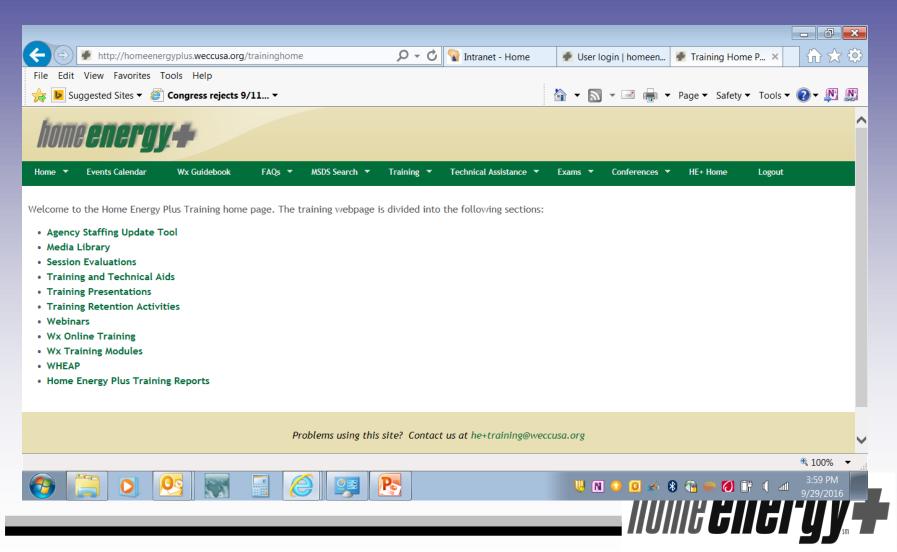


Forms



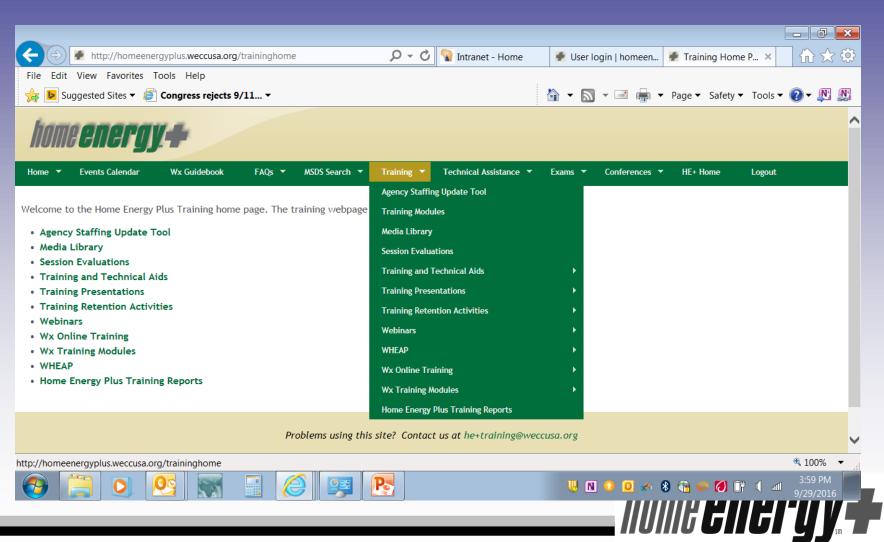


HE+ training site





HE+ training site





Reporting Tools

WisWAP

- Customer information
- Action dates
 - Application
 - Energy Audit
 - Final Inspection
 - Invoice date
- Measure costs
- Unit counts
- Average costs

Quality Assurance Reporting Database

- Selection of homes to inspect
- Inspection results by measure
- Tracking of inspected units
- Inspector statistics
- Developed a scoring system







1-4 Unit Measure Frequency and Average Cost Report

Contract Year 2012

Selection Criteria: Contract Year: 2012 | Housing Type: Single family house | Measure Category: Wall Insulation

Statewide Average Cost \$1,535.42 Statewide % of Units Receiving Measure 28.8% Statewide no. of completed Units 1,186

Single family house Wall Insulation

| | | AVERAGE JOB | NO. OF UNITS | % OF UNITS | NO. OF |
|----|-------------------------------------|--------------|-------------------|-------------------|-----------------|
| | | MEASURE COST | RECEIVING MEASURE | RECEIVING MEASURE | COMPLETED UNITS |
| 01 | ADVOCAP, Inc. | \$2,114.15 | 30 | 37.0% | 81 |
| 02 | Ashland Co. Housing Authority | \$851.45 | 19 | 27.5% | 69 |
| 03 | Rock/Walworth Comm. Action | \$1,103.97 | 22 | 29.3% | 75 |
| 04 | CAP Services, Inc. | \$1,537.30 | 18 | 32.1% | 56 |
| 05 | Central WI Community Action Council | \$1,020.65 | 23 | 34.3% | 67 |
| 06 | Partners For Community Dev. | \$1,304.03 | 6 | 40.0% | 15 |
| 08 | Hartford Comm Development Authority | \$1,843.67 | 8 | 28.6% | 28 |
| 09 | Indianhead Community Action Agency | \$736.75 | 16 | 20.8% | 77 |
| 10 | La Casa de Esperanza | \$1,110.74 | 10 | 11.5% | 87 |
| 14 | North Central CAP, Inc. | \$2,339.07 | 2 | 6.9% | 29 |
| 15 | Weatherization Services - OCHA | \$2,348.49 | 13 | 43.3% | 30 |
| 16 | Project Home, Inc. | \$2,161.39 | 34 | 32.1% | 106 |
| 17 | Racine/Kenosha CAA | \$2,148.65 | 12 | 54.6% | 22 |
| 18 | Southwestern Wisconsin CAP | \$1,384.57 | 21 | 31.3% | 67 |
| 20 | West Central Wisconsin CAP | \$916.46 | 19 | 32.8% | 58 |
| 22 | Couleecap, Inc | \$976.64 | 26 | 32.5% | 80 |
| 23 | Women's Employment Project | \$2,104.22 | 7 | 33.3% | 21 |
| 24 | La Casa de Esperanza - MILW | \$1,990.50 | 30 | 21.1% | 142 |
| 25 | Social Development Commission | \$1,695.54 | 25 | 32.9% | 76 |







YTD Expenditures by Fund With Line Item Detail (Contract Year 2012)

Selection Criteria: Report Type: State Wide | Contract Year: 2012

State Totals

Fund

| Line Item | DOE | Public Benefits | EAP | Total |
|---------------------|------------|-----------------|----------------|-----------------|
| Administration | \$0.00 | \$1,586,181.82 | \$526,663.22 | \$2,112,845.04 |
| Operations | \$270.00 | \$10,294,717.94 | \$2,012,212.43 | \$12,307,200.37 |
| Program Support | \$0.00 | \$4,529,667.20 | \$1,546,954.61 | \$6,076,621.81 |
| Liability Insurance | \$0.00 | \$110,764.35 | \$57,516.42 | \$168,280.77 |
| Financial Audit | \$0.00 | \$11,031.94 | \$7,613.54 | \$18,645.48 |
| Health & Safety | \$0.00 | \$2,317,088.03 | \$427,023.55 | \$2,744,111.58 |
| TTA | \$8,491.02 | \$243,133.14 | \$0.00 | \$251,624.16 |
| Total | \$8,761.02 | \$19,092,584.42 | \$4,577,983.77 | \$23,679,329.21 |





Agencies are required to have proper documentation in files

- required photos in the file
 - Appliances that may be replaced
 - Doors & Windows for replacement
 - Lead Safe Work
- ensure forms are filled out accurately and completely.
 - Blower door/combustion safety/ZPD
 - Heating system checklists

Administrative Monitoring

Administrative Review Questionnaire

File Review Checklist

Procurement Review Checklist

Wisconsin Department of Administration - Division of Energy Services - Bureau of Quality Assurance Sub-Grantee FY 2012 Administrative Review

FY 2012 ADMINISTRATIVE REVIEW QUESTIONNAIRE

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| 1. 2. E. | PROGRAMMATIC AND ADMINISTRATIVE DOCUMENTS | 9 10 11 |

| WISCONSIN DES <u>FY 2012</u> ADMINISTRATIVE FI | LE RE | VIEW | | | | | | | |
|---|---------|------|-----|--|--|--|--|--|--|
| Contract AD119500. DES File Review Date: | | | | | | | | | |
| Agency: DES Reviewer: | | | | | | | | | |
| Building ID#: WisWAP Job Completion Ds | te: | | | | | | | | |
| Verification of Eligibility - WHEAP Referral Details Date | Date | | | | | | | | |
| Verification of Ownership ☐ Tax Statement, ☐ Deed, ☐ Title - (Wx PM 2. | 7) | YES | NO | | | | | | |
| □ Deferral □ Denial notice & □ Pictures Required - (Wx PM 2.5.2) | NA. | YES | NO | | | | | | |
| Work Agreement ☐ Signed ☐ Dated by ☐ Property owner/Agent - (Wx F | M 8.4) | YES | NO | | | | | | |
| NEAT, MHEA, or TREAT Audit Report (or access to) | NA. | YES | NO | | | | | | |
| 6. Work Order including: | | | | | | | | | |
| (a) Total measure costs w/ actual materials and labor & matches WisWAP | | YES | NO | | | | | | |
| (b) Documentation of ☐ Call-back corrections with ☐ Pictures | NA. | YES | NO | | | | | | |
| (c) Final Inspection ☐ Signed by inspector ☐ Dated ☐ WisWAP date ma | atch | YES | NO | | | | | | |
| (d) Work signoff ☐ Owner/agent or ☐ Owner/agent and tenant ☐ Date | | YES | NO | | | | | | |
| (e) Quality control record, if performed - (Wx PM 1.2.5) | NA. | YES | NO | | | | | | |
| (f) Justification for Measures List items not completed | NA. | YES | NO | | | | | | |
| Electric Heat Fuel Switch Calculator Worksheet - (Wx PM 10.6) | NA. | YES | NO | | | | | | |
| 8. H&S Inspection Checklist Moisture Audit in file (if necessary) - (Wx PM | 12.1.1) | YES | NO | | | | | | |
| 9. EPA "Guide to Mold/Moisture" & "Lead-Renovate Right" pamphlets to cus | tomer | YES | NO | | | | | | |
| 10. "Customer Bill of Rights" pamphlet to customer - (Wx PM 1.2.8.1) | | YES | NO | | | | | | |
| 11. □ "Ventilation & Your Home" or □ "Refusal of Ventilation Waiver" - (10.5.2) | NA | YES | NO | | | | | | |
| 12. ☐ Heating System Checklist & ☐ Sizing calculations (replacement units) | NA | YES | NO | | | | | | |
| Completed Building Diagnostics Forms ZPD (attached garage) | YES | NO | | | | | | | |
| 14. Completed Blower Door Test & Sealing Summary form | YES | NO | | | | | | | |
| Rental units: ☐ Rental work agreement, ☐ Unit's monthly rent, | NA | YES | NO | | | | | | |
| Landlord Contribution calc., Rental Housing Plan - (Wx PM 3.4) | IVAL | TESE | NOL | | | | | | |
| 16. Accrual of Benefits Form (≥ 2 units / tenants do not pay fuel or electric bill) | NA. | YES | NO | | | | | | |
| Any waivers or approvals pertaining to the job or bldg (Wx PM 8.2, 15) | NA. | YES | NO | | | | | | |
| 18. Copy of Insulation Certificate in the project file - (Wx Info. Transmittal #37) | NA. | YES | NO | | | | | | |
| 19.Photographs (or access to): 🔲 Exterior front; 🔲 Each window, door, & ap | | YES | NO | | | | | | |
| replaced; 🔲 Leaky water heater replaced; 🔲 Adverse conditions affecting | Wxwork | _ | _ | | | | | | |
| 20. Lien waivers - (Wx PM 6.8, 1, c) & (Wx PM 8.2, 17) | | YES | NO | | | | | | |
| 21. Building Permit(s), if required by local building codes - (Wx PM 8.2) | NA | YES | NO | | | | | | |
| 22. Customer mailed or received WX Guidebook - (Wx PM 1.2.8) | NA. | YES | NO | | | | | | |
| 23. Lead Safe Documentation - (Wx PM 12.2.1) ☐ Pictures; | | | | | | | | | |
| Lead Safe Wx Form: PARTA or PARTB with (one or more); | NA. | YES□ | NO | | | | | | |
| Renovation Recordkeeping Checklists | | | | | | | | | |
| 24. Certified Renovator Documentation - (Wx PM 12.2.1) | NA | YES | NO | | | | | | |
| Asbestos Documentation: ☐ Work Agreement noting disturbed ACM; | | | | | | | | | |
| ■ Work modeled in an Audit; ■ Work Order notes for crew guidance; | NA | YES□ | NO | | | | | | |
| ☐ Testing Results (if done); Pictures: ☐ Final attic insulation work and/or | | | | | | | | | |
| Containment measures & safe work practices | l | | | | | | | | |
| 26. State Historic Preservation Documentation - (Wx PM 10.8) | NA | YES | NO | | | | | | |
| Comments: | | | | | | | | | |

| WISCONSIN DES FY 2012 PROCUREMENT FILE REVIEW | | | | | | | | | |
|---|----------------------------|----------|------|----|--|--|--|--|--|
| AGENCY: AD119500. | DATE: DES REVIEWER: | | | | | | | | |
| CONTRACT SERVICE: | | | | | | | | | |
| CONTRACT LENGTH: | N: | YES | NO | | | | | | |
| Winning Service Bidder(s): | | | | | | | | | |
| | | | | | | | | | |
| File copy of original RFB package materials. | | | YES | NO | | | | | |
| Documentation of Advertisement: Agency Lette | | | YES | NO | | | | | |
| Vendor Solicitation List & printout of researche | d MBE from the DOA wel | osite. | YES | NO | | | | | |
| Invitation To Bid letter in file. | | | YES | NO | | | | | |
| 5. Bidder's questions documented: 🔲 List distributed | I to all Bidders. | | YES□ | NO | | | | | |
| Bidder's Meeting (if conducted) Mandatory or | | NA | YES□ | NO | | | | | |
| (a) Contractor Sign-In Sheet: (Name, Company, Co | - |) | YES | NO | | | | | |
| (b) Meeting Minutes documenting any topics and/o | | | YES□ | NO | | | | | |
| Bid Opening Minutes: List date & agency staff pres reasons for a bidder's disqualification. | ent, any special situation | s, or | YES□ | NO | | | | | |
| 8. Bid submittal checklist verifying all required docum | | YES | NO | | | | | | |
| Retained original Bidder Envelopes showing Recei | | YES | NO | | | | | | |
| 10. Bid Summary/Abstract Sheet: | | YES. | NO | | | | | | |
| (a) Showing at a minimum: (Company, Date & Time Total Bid Price, and Comments) | YES□ | NO | | | | | | | |
| (b) Clearly identifies the winning bidder - Primary & Secondary (if necessary) and documents the reasons the winning bidder(s) was selected. YES | | | | | | | | | |
| 11. Contains all the original & complete contractor bid of | locuments. | | YES□ | NO | | | | | |
| 12. Intent To Award letter in file & sent to all Bidders. | | | YES | NO | | | | | |
| 13. Contains the original & signed Contractual Agreem | ent. | | YES□ | NO | | | | | |
| 14. Sent Contract Compliance/Affirmative Action Plan | contact information to con | tractor. | YES□ | NO | | | | | |
| 15. Contract Revisions with a new & signed Contractua | I Agreement. | NA | YES□ | NO | | | | | |
| 16. Contractor T&TA retention agreement, exchange for | or paying training costs. | NA | YES | NO | | | | | |
| Contract Extension with a new & signed Contractua Required documentation of State of WI Approva | | NA□ | YES□ | NO | | | | | |
| 18. Documentation of Contractor cost increase reques | | NA | YES□ | NO | | | | | |
| Comments: | - | | | | | | | | |



| A | Α | В | С | D | Е | F | G | | Н | | J | К | L |
|--------|---|----------|---|--------------|--------------------|--------------|-----------|-------------------|-----------|--------------|----------------|---------------------------|----------|
| 1 | | | | FY17 | AR | Qua | lity / | <u>Assu</u> | rance | ا : | <u>Plan</u> | | |
| 2 | | | | Wx | Subgran | ntee: [Ag | ency N | lame (| #XX)] | | | | |
| 3 4 | | | Lead AF | l Assignn | nent: [<u>Nar</u> | ne] | | Date of | AR Site V | /isit: | [[mm/dd-da | إيريا <u>ً.</u> [يرياً | |
| 5 6 | | | QA Mon | itor Assig | nment: [] | Jame] | | Date of | QA Site \ | /isit: | (mm/dd-da | 4 00] | |
| 7 8 | | Client l | ile Rev | iew | | | | | | | | | |
| 9 | | Priority | | | /ten | Descripi | tion | | | 14 <u>17</u> | ency Progr | 888 | Verified |
| 10 | 1 | High | [<u>Title</u>]: [Wi <i>50 days</i> . | hy it's here | statement | . [Action: | statement |]. <i>Resol</i> u | e within | | | | |
| 11 | | BA Co | mments : | [Double=0 | Click] | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | 2 | | [Title]: [WI | hy it's here | statement | :]. [Action: | statement | :]. | | | | | |
| 14 | | DA Col | mments : | [Double-0 | Click] | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | B. Prog | ırammat | ic & Ad | ministra | | | | | | | | |
| 17 | | Priority | | | | Descripi | | | | <u>بال</u> د | ency Fragi | 888 | Verified |
| 18 | 1 | High | [<u>[itle]</u> : [Wl | hy it's here | statement |]. [Action: | statemeni |]. <i>Resol</i> u | e within | | | | |
| 19 | | DA Col | mments : [Double-Click] | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | 2 | | [Title]: [WI | hy it's here | statement |]. [Action: | statement | 1. | | | | | |
| 22 | | DA Col | mments : | [Double=0 | Click] | | | | | | | | |
| 22 | | | | | | | | | | | | | |





| A | Α | В | U | D | E | F | li li | Н | | J | Κ | L |
|----|---|----------|-------------------------------|-----------|-----------|-------------|------------|-------------------------|---------------------|------------|-----|----------|
| 22 | | DA Col | nments : | [Double-0 | Dlick] | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | C. Fina | ncial M | anagem | ent | | | | | | | |
| 25 | | Priority | | | /ten: | Descripi | tion | | بيالد | ency Progn | 988 | Verified |
| 26 | 1 | High | []itle]: [W <i>60 days</i> | | statement |]. [Action: | statement) | . <u>Resolve within</u> | | | | |
| 27 | | DA Col | nments : | [Double-0 | Dlick] | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | 2 | | (Title): (W | | statement |]. [Action: | statement) | | | | | |
| 30 | | DA Col | nments : | [Double-0 | Dlick] | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | D. Sub | mittal D | ocumen | ts | | | | | | | |
| 33 | | Priority | | | /ten: | Descripi | tian | | Agency Progress | | | Verified |
| 34 | 1 | High | [Title]: [W <u>60 days</u> | | |]. [Action: | statement) | . <u>Resolve within</u> | | | | |
| 35 | | DA Col | nments : | [Double-0 | Dlick] | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | 2 | | [Title]: [W | | statement |]. [Action: | statement) | | | | | |
| 38 | | DA Col | nments : | [Double-0 | Click] | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | | E. Insu | rance a | nd F. O | | | | | | | | |
| 41 | | Priority | | | | Descripi | | | <i>14<u>1</u></i> 7 | ency Progn | 988 | Verified |
| 42 | 1 | High | []itle]: [W <i>50 days</i> | | statement |]. [Action: | statement) | . <u>Resolve within</u> | | | | |
| 43 | | DA Col | nments : | [Double-0 | Click] | | | | | | | |
| 44 | | | | | | | | | | | | |





PLAN GOAL

 Improve the consistency and quality of work in the weatherization program by providing technical assistance (TA) to weatherization agencies and subcontractors.





Strategy

- The needs of each agency will be assessed based on past and future Quality Assurance (QA) inspections and Administrative Reviews as well as targeted reviews of agency files for compliance with program standards.
- Agencies will also be invited to ask for TA for self-identified needs.
- QA will work with the Policy Team to improve measures and their descriptions.





measurement of success

- improved passing ratios for agencies on QA inspections
- improved performance on Administrative Reviews
- reduced help desk calls
- reduced customer complaints





Wisonsin Quality Assurance

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